Predelivery Instructions

CPH-12, CPH-15, CPH-20
Center Pivot Hitch

Read the operator manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Illustrations may show optional equipment not supplied with standard unit.
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Printed in the United States of America

7/12/17
Important Safety Information

■ Look for Safety Symbol

⚠️

The SAFETY ALERT SYMBOL 1 indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

■ Be Aware of Signal Words

Signal words designate a degree or level of hazard seriousness. The signal words are:

⚠️ DANGER

DANGER Indicates an imminent hazard which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

⚠️ WARNING

WARNING Indicates a potential hazard which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

⚠️ CAUTION

CAUTION Indicates a potential hazard which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

■ Prepare for Emergencies

1. Be prepared if a fire starts
2. Keep a first aid kit and fire extinguisher handy.
3. Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.

■ Wear Protective Equipment

1. Wear protective clothing and equipment appropriate for the job, such as safety shoes, safety glasses, hard hat, and ear plugs.
2. Clothing must fit snug without fringes and pull strings to avoid entanglement with moving parts.
3. Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
4. Operating equipment safely requires your full attention. Avoid wearing entertainment headphones while operating machinery.

■ Use A Safety Chain

1. A safety chain will help control drawn machinery if the machinery separates from tractor drawbar.
2. Use a chain with a strength rating equal to or greater than the gross weight of towed machinery.
3. Attach chain to tractor drawbar support or other specified anchor location. Allow only enough slack in chain to permit turning.
4. Replace chain if any links or end fittings are broken, stretched or damaged.
5. Do not use safety chain for towing.

1. Symbols and color of decals are based on ANSI standard Z535.
Avoid High Pressure Fluids

Escaping fluid under pressure can penetrate the skin, causing serious injury.
1. Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
2. Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing any work on the system.
3. Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
4. Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
5. DO NOT DELAY. If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene can result.

Tire Safety

Tire changing can be dangerous and must be performed by trained personnel using correct tools and equipment.
1. When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side—not in front of or over tire assembly. Use a safety cage if available.
2. When removing and installing wheels, use wheel-handling equipment adequate for weight involved.

Use Safety Lights and Devices

Slow-moving tractors and towed machinery can create a hazard when driven on public roads. They are difficult to see, especially at night.
1. Use flashing warning lights and turn signals whenever driving on public roads.
2. Use lights and devices provided with implement.

Keep Riders Off Machinery

Riders obstruct the operator’s view. Riders could be struck by foreign objects or thrown from the machine.
1. Never allow children to operate equipment.
2. Keep all bystanders away from machine during operation.

Transport Machinery Safely

Maximum Transport speed for implement is 30 kph (20 mph). Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.
1. Comply with state and local laws.
2. Carry reflectors or flags to mark machinery in case of breakdown on the road.
3. Keep clear of overhead power lines and other obstructions when transporting. Refer to transport dimensions in the operator’s manual.
4. Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of towing vehicle.
5. Turning tractor too tight can cause implement to tip over.
6. When towing on a trailer, secure implement with tie downs and chains.
7. When towing on a trailer, sudden braking can cause a trailer to swerve and upset. Reduce speed if trailer is not equipped with brakes.

Shutdown and Storage

1. Park the tractor and implement on a solid, level surface where children normally do not play.
2. Put tractor in park or set park brake. Turn off engine and remove switch key to prevent unauthorized starting.
3. Wait for all components to come to a complete stop before leaving the leaving the operator’s seat.
4. Detach the tractor. Secure the implement using blocks and supports.
**Practice Safe Maintenance**

1. Understand procedure before doing work. Use proper tools and equipment. Refer to this manual.
2. Work in a clean, dry area.
3. Lower the implement. Put tractor in Park, turn off engine. To prevent unauthorized starting, remove key before performing maintenance or service work.
4. Make sure all moving parts have stopped and all system pressure is relieved.
5. Disconnect lighting harness from the tractor before servicing or adjusting electrical systems.
6. Allow machine to cool completely.
7. Welding: Disconnect lighting harness from the tractor. Protect hydraulic lines. Avoid fumes from heated paint.
8. Inspect all parts. Make sure parts are in good condition and installed properly.
9. Do not alter this machine in a way which will adversely affect its performance.
10. Remove buildup of grease, oil or debris.
11. Remove all tools and unused parts from implement before operation.

**Safety At All Times**

Thoroughly read and understand the instructions in this manual before operation. Read all instructions noted on the safety decals.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

1. The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. If over-the-counter drugs are used, seek medical advice on whether you can safely operate equipment.
2. Operator must be familiar with all functions of the tractor and attachments, and be able to handle emergencies quickly.
3. Make sure all guards and shields are in place and secured before operating the implement.
4. Keep all bystanders away from equipment and work area.
5. Operator must start tractor and operate controls from the driver’s seat only, never from the ground.
6. Dismounting from a moving tractor can cause serious injury or death.
7. Be familiar with all functions of the implement.
8. Do not leave implement unattended with tractor engine running.
9. Do not stand between the tractor and the implement during hitching.
10. Watch out for wires, trees, etc., when folding and raising the implement.
11. Turning tractor too tight can cause hitched implement to ride up on wheels. This can result in injury or equipment damage.

**Safety Decals**

Your implement comes equipped with all safety decals in place. They were designed to help you safely operate your implement.

- Read and follow decal directions.
- Keep all safety decals clean and legible.
- Replace all damaged or missing decals. Order new decals from your Great Plains dealer. Refer to this section for proper decal placement.
- When ordering new parts or components, also request corresponding safety decals.

To install new decals:
1. Clean the area on which the decal is to be placed.
2. Peel backing from decal. Press firmly on surface, being careful not to cause air bubbles under decal.
Introduction

Great Plains Manufacturing wants you to be satisfied with any new machine delivered by the Great Plains Trucking network. To ease the assembly task and produce a properly working machine, read this entire manual before assembling or setting up new equipment.

Description of Unit

The center pivot hitch is a pull-type tillage implement designed to tow a Great Plains three-point drill. No-till coulters are mounted on the hitch. Each coulter is aligned with a drill opener. Each coulter tills a strip for a drill opener. The hitch has two hydraulic circuits: one for raising and lowering the coulters and one for raising and lowering the drill.

Intended Usage

Use the center pivot hitch in no-till field conditions. Use the hitch only with a Great Plains three-point drill. Do not modify the hitch for use with drills or attachments other than those specified by Great Plains.

Covered Models

- CPH-12: Center Pivot Hitch 12 ft
- CPH-12F: Center Pivot Hitch 12 ft Fertilizer
- CPH-15: Center Pivot Hitch 15 ft
- CPH-15F: Center Pivot Hitch 15 ft Fertilizer
- CPH-20: Center Pivot Hitch 20 ft
- CPH-20F: Center Pivot Hitch 20 ft Fertilizer

Using This Manual

This manual was written to help you assemble and prepare the new machine for the customer. The manual includes instructions for assembly and setup. Read this manual and follow the recommendations for safe, efficient and proper assembly and setup.

An operator’s manual is also provided with the new machine. Read and understand “Important Safety Information” and “Operating Instructions” in the operator’s manual before assembling the machine. As a reference, keep the operator’s manual on hand while assembling.

The information in this manual is current at printing. Some parts may change to assure top performance.

Definitions

The following terms are used throughout this manual.

Right and left as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated.

NOTICE

Economic and/or Liability Risks:
A crucial point of information related to the current topic. Read and follow the directions to remain safe, avoid serious damage to the equipment and to ensure desired field results.

NOTE:
Useful information about the preceding topic.

Further Assistance

For additional help with understanding these assembly instructions or for any other assembly or setup related questions, please contact our service department at the following address:

Great Plains Service Department
1525 E. North St.
P.O. Box 5060
Salina, KS 67402-5060

Or call us at (800) 270-9302 to speak over the phone with a service representative.

Copies of this machine’s operator manual are available by mail or online. Please visit www.greatplainsag.com and follow the product link for information on your machine.
Preparation

Step-by-step instructions for assembling the drill begin in the next section of the manual. Before commencing work, review the Tools Required and Pre-Assembly Checklist to make sure you have all necessary parts and equipment.

The center pivot hitch is shipped via flat bed truck. It is the dealer’s responsibility to unload the new machine. Unload all equipment before beginning assembly.

NOTICE

Do not attempt any assembly work while the machine is on the truck.

Tools Required

- Forklift or overhead hoist
- General hand tools

Pre-Assembly Checklist

- Read and understand “Important Safety Information” on page 1 before assembling.
- Have at least two people on hand while assembling.
- Make sure the assembly area is level and free of obstructions (preferably an open concrete area).
- Have all major components.
- Have all fasteners and pins shipped with the hitch.

NOTICE

If a pre-assembled part or fastener is temporarily removed, remember where it goes. Keep the parts separated.

- Have a copy of the parts manual on hand. If unsure of proper placement or use of any part or fastener, refer to the parts manual.
- Check that all working parts are moving freely, bolts are tight, and cotter pins are spread.
- Check for proper tension and alignment on all drive chains.
- Check that all safety decals and reflectors are correctly located and legible. Replace if improperly located or damaged. Refer to Safety Decals in the operator’s manual.
- Inflate tires to recommended pressure as listed in the “Tire Inflation Chart” on page 14. Tighten wheel bolts as specified in “Torque Values Chart” on page 13.
Assembly

Use a hoist or lift to unload the machine from the truck. Place the machine in the assembly area.

**NOTICE**

*Do not attempt any assembly work while the machine is on the truck.*

**Refer to Figure 1.**

1. Unstrap the transport tires (1) from hitch. Assemble tires to outer hubs with 1/2 inch lug bolts (2).

**Refer to Figure 2.**

2. Center coulter toolbar assembly (3) under hitch (4) and fasten to upper coulter-toolbar support with 5/8-11 x 8 inch bolts (5), flat washers (6), lock washers (7) and nuts (8).

Use extra care when assembling coulter toolbar to hitch. It is critical that coulters are centered under center pivot hitch for proper tracking with drill. A 12-foot hitch with 7 1/2-inch row spacing is the only unit with a coulter at the center of hitch. All other coulter toolbars will have a gap at the center of hitch.
3. Bolt hose loop (9) onto a coupler nut welded near front of hydraulic tongue (10). Use a 1/2-13 x 1 inch bolt (11), two flat washers (12) and a lock washer (13).

4. Route hydraulic hoses through hose loop.

**Light Bracket Installation**  
(S/N11957Z+)

**For CPH-12 and CPH-15**

*Refer to Figure 4.*

1. Install light bracket assembly to the rear of the coulter toolbar and secure with 1/2 inch U-bolts (1), lock washers (2), and nuts (3).
**For CPH-20**

*Refer to Figure 6.*

1. Install light bracket assembly to the rear of the coulter toolbar and secure with 1/2 inch U-bolts (1), lock washers (2), and nuts (3).

2. Light brackets must be located as follows:
   - (A) Red decals at the ends of the light bracket must be within 25 inches from the edge of the machine.
   - (B) Amber lights must be within 16 inches from the edge of the machine.
   - (C) Red lights must be within 2 feet to 5 feet of the center of the machine.
   - (D) Maximum distance of 5 feet between red decals.

*Figure 6  CPH-20 Install Light Brackets*

*Figure 7  CPH-20 Light Bracket Locations*
SMV Installation (S/N11957Z+)

1. At the center rear of the machine, install the SMV mount (1) to the bracket (2). Secure with two 5/16-18 x 3/4 inch round head square neck bolts (3), lock washers (4), and nuts (5).

2. Install the SMV (6) on the mount with two 1/4-20 x 5/8 inch screws (7), lock washers (8), and nuts (9).

Light Harness (S/N11957Z+)

**CAUTION**

**Harness Damage Hazard:**
Make sure all wiring harnesses are secured to the machine to prevent damage to the harnesses which can result in injury to the operator or damage to the machine.

Refer to Figure 9 and Figure 10.

1. Connect the wishbone harness (1) to the machine harness (2). Make sure to position the harness so it can be routed as follows:
   - The wire with green tape will be routed to the right-hand side.
   - The wire with yellow tape will be routed to the left-hand side.

2. Route the wishbone harness along the frame to the lights.

**NOTE:**
Coulters and other components are not shown in the illustrations for clarity.

For CPH-12 and CPH-15

a. Connect the three pin connector (3) to the red light.
b. Connect the two pin connector (4) to the amber light.
For CPH-20

a. Connect the three pin connector (3) to the red light.
b. Connect the two pin connector (4) to the extension harness (5).
c. Route the extension harness to the amber light and connect it to the two pin connector on the light.

3. Secure the wiring harness to the machine with adhesive backed cord clips.

**NOTICE**

*Wire Damage Risk:*

Make sure all harnesses are secured to machine. To prevent damage to harnesses, do not stretch wires and do not let wires drag on the ground.
Setup

This section covers hitching the center pivot hitch to a tractor and bleeding the hitch hydraulics.

Hitching Tractor to CPH

**DANGER**

*You may be severely injured or killed by being crushed between the tractor and drill. Do not stand or place any part of your body between drill and moving tractor. Stop tractor engine and set park brake before installing the hitch pin.*

1. Place hitch weldment (1) over ball swivel on hitch tongue (2). Hold hitch weldment in place by inserting spacer tube (3) through hitch clevis and ball swivel.

2. Back tractor up to hitch and bolt hitch weldment to tractor drawbar using 1-by-10-inch bolt (4), large flat washer (5), lock washer (6), and nut (7).

3. Use 3/4-by-9-inch bolt (8) to bolt hitch weldment through its slotted hole and onto secondary hole of tractor drawbar. Install a 3/4-inch flat washer (9) next to top slotted hole and fasten with a lock washer (10) and nut (11). Tighten both bolts.

4. Securely attach safety chain to tractor-drawbar frame.

5. Remove jack from stob on side of hitch tongue and place in transport position on frame brace.

Hydraulic Hose Hookup

Connect hydraulic hoses from tongue cylinder to one set of tractor outlets. Connect hoses from transport-lift cylinders to another set of tractor outlets.

Great Plains hydraulic hoses have color coded handle grips to help you hookup hoses to your tractor outlets. Hoses that go to the same remote valve are marked with the same color.

To distinguish hoses on the same hydraulic circuit, refer to the symbol molded into the handle grip. Hoses with an extended-cylinder symbol feed cylinder base ends. Hoses with a retracted-cylinder symbol feed cylinder rod ends.
For Older Models

To distinguish hoses on the same hydraulic circuit, refer to plastic hose holder. See Figure 14. Hose under extend-cylinder symbol feeds cylinder base ends. Hose under retracted-cylinder symbol feeds cylinder rod ends.

Bleeding the Hydraulics

**WARNING**

*High Pressure Fluid Hazard:*
Relieve pressure before disconnecting hydraulic lines. Escaping fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. Use a piece of paper or cardboard, NOT BODY PARTS, to check for leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. If an accident occurs, seek immediate medical attention from a physician familiar with this type of injury.

Hydraulics must be bled of air before hitch operation. Bleed hydraulics during initial hitch setup. If the hydraulics are not bled, the cylinders will move with jerky, uneven motions.

**Bleeding Tongue Cylinder**

1. Check hydraulic fluid in tractor reservoir and fill to proper level. Add fluid to system as needed. Tongue cylinder capacity is one-half gallon (1.89 liters).
2. Raise and safely support hitch, transport frame and front tongue.
3. Unpin rod end of tongue cylinder. Block, wire or otherwise safely support cylinder so when rod end is fully extended it does not contact anything.
4. Cycle cylinder completely in and out at least three times to purge air from cylinder and hoses.
5. Fully extend cylinder and repin rod end.
6. Recheck tractor reservoir and fill to proper level.

**Bleeding Transport Lift Cylinders**

The transport-lift cylinders are rephasing cylinders and require a special procedure for bleeding air from the circuit. Read and follow procedure carefully. Cylinders will not function properly with air in the hydraulic circuit.

1. Check hydraulic fluid in tractor reservoir and fill to proper level. Add fluid to system as needed. Transport-lift-cylinder capacity is about 2 gallons (7.57 liters).
2. Jack up and support hitch frame.
3. Remove 1/2-inch nylock nuts on spring side of cylinder-support brace. Unpin cylinders. Do not alter position of jam nuts on center of support-brace bolts.
4. Turn cylinders to a position where rod ends are higher than base ends. Support cylinders in a safe location.
5. Start tractor and run engine at idle speed. With rod ends higher than base ends, hydraulically extend cylinders. After cylinder rods are fully extended, continue to hold control lever for one minute before hydraulically retracting cylinders.

---

Figure 14
Hydraulic Hose Color Ties
## Appendix - Reference Information

### Torque Values Chart

| Bolt Size | Bolt Head Identification | | |
|-----------|---------------------------|-------------------|-------------------|-------------------|
| in-tpi²  | Grade 2 | Grade 5 | Grade 8 |
| \(\frac{1}{4}\)-20 | 7.4 | 5.6 | 11 | 8 | 16 | 12 |
| \(\frac{1}{4}\)-28 | 8.5 | 6 | 13 | 10 | 18 | 14 |
| \(\frac{5}{16}\)-18 | 15 | 11 | 24 | 17 | 33 | 25 |
| \(\frac{5}{16}\)-24 | 17 | 13 | 26 | 19 | 37 | 27 |
| \(\frac{3}{8}\)-16 | 27 | 20 | 42 | 31 | 59 | 44 |
| \(\frac{3}{8}\)-24 | 31 | 22 | 47 | 35 | 67 | 49 |
| \(\frac{7}{16}\)-14 | 43 | 32 | 67 | 49 | 95 | 70 |
| \(\frac{7}{16}\)-20 | 49 | 36 | 75 | 55 | 105 | 78 |
| \(\frac{7}{32}\)-13 | 66 | 49 | 105 | 76 | 145 | 105 |
| \(\frac{9}{16}\)-12 | 75 | 55 | 115 | 85 | 165 | 120 |
| \(\frac{9}{16}\)-18 | 95 | 70 | 150 | 110 | 210 | 155 |
| \(\frac{5}{32}\)-11 | 105 | 79 | 165 | 120 | 235 | 170 |
| \(\frac{5}{32}\)-16 | 130 | 97 | 205 | 150 | 285 | 210 |
| \(\frac{7}{32}\)-10 | 150 | 110 | 230 | 170 | 325 | 240 |
| \(\frac{3}{64}\)-9 | 235 | 170 | 360 | 265 | 510 | 375 |
| \(\frac{3}{64}\)-16 | 260 | 190 | 405 | 295 | 570 | 420 |
| \(\frac{7}{64}\)-7 | 225 | 165 | 585 | 430 | 820 | 605 |
| \(\frac{7}{64}\)-14 | 250 | 185 | 640 | 475 | 905 | 670 |
| 1-8 | 340 | 250 | 875 | 645 | 1230 | 910 |
| 1-12 | 370 | 275 | 955 | 705 | 1350 | 995 |
| \(\frac{13}{64}\)-7 | 480 | 355 | 1080 | 795 | 1750 | 1290 |
| \(\frac{13}{64}\)-12 | 540 | 395 | 1210 | 890 | 1960 | 1440 |
| \(\frac{1}{4}\)-7 | 680 | 500 | 1520 | 1120 | 2460 | 1820 |
| \(\frac{1}{4}\)-12 | 750 | 555 | 1680 | 1240 | 2730 | 2010 |
| \(\frac{1}{8}\)-6 | 890 | 655 | 1990 | 1470 | 3230 | 2380 |
| \(\frac{1}{8}\)-12 | 1010 | 745 | 2270 | 1670 | 3680 | 2710 |
| \(\frac{1}{2}\)-6 | 1180 | 870 | 2640 | 1950 | 4290 | 3160 |
| \(\frac{1}{2}\)-12 | 1330 | 980 | 2970 | 2190 | 4820 | 3560 |

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</tr>
<tr>
<td>(\frac{30}{8})-2</td>
<td>1060</td>
<td>785</td>
<td>1680</td>
</tr>
<tr>
<td>(\frac{36}{8})-3.5</td>
<td>1730</td>
<td>1270</td>
<td>2650</td>
</tr>
<tr>
<td>(\frac{36}{8})-2</td>
<td>1880</td>
<td>1380</td>
<td>2960</td>
</tr>
</tbody>
</table>

a. in-tpi = nominal thread diameter in inches-threads per inch  
b. N-m = newton-meters  
c. mm x pitch = nominal thread diameter in mm x thread pitch  
d. ft-lb = foot pounds

Torque tolerance +0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

---

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## Tire Inflation Chart

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Inflation</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.50 x 20” 4-Ply Drill Rib</td>
<td>28 psi</td>
</tr>
<tr>
<td>9.0 x 22.5 10-Ply Highway Service 70</td>
<td>70 psi</td>
</tr>
<tr>
<td>9.0 x 24” 8-Ply Rib Implement</td>
<td>40 psi</td>
</tr>
<tr>
<td>9.5L x 15” 6-Ply Rib Implement</td>
<td>32 psi</td>
</tr>
<tr>
<td>9.5L x 15” 8-Ply Rib Implement</td>
<td>44 psi</td>
</tr>
<tr>
<td>9.5L x 15” 12-Ply Rib Implement</td>
<td>60 psi</td>
</tr>
<tr>
<td>11L x 15” 6-Ply Rib Implement</td>
<td>28 psi</td>
</tr>
<tr>
<td>11L x 15” 12-Ply Rib Implement</td>
<td>52 psi</td>
</tr>
<tr>
<td>12.5L x 15” 8-Ply Rib Implement</td>
<td>36 psi</td>
</tr>
<tr>
<td>12.5L x 15” 10-Ply Rib Implement</td>
<td>44 psi</td>
</tr>
<tr>
<td>16.5L x 16.1” 10-Ply Rib Implement</td>
<td>36 psi</td>
</tr>
<tr>
<td>41 x 15” x 18 - 22-Ply Rib Implement</td>
<td>44 psi</td>
</tr>
</tbody>
</table>

## Tire Warranty Information

All tires are warranted by the original manufacturer of the tire. Tire warranty information is found in the brochures included with your Operator’s and Parts Manuals or online at the manufacturer’s web sites listed below. For assistance or information, contact your nearest Authorized Farm Tire Retailer.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Web site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titan</td>
<td><a href="http://www.titan-intl.com">www.titan-intl.com</a></td>
</tr>
<tr>
<td>Goodyear</td>
<td><a href="http://www.goodyearag.com">www.goodyearag.com</a></td>
</tr>
<tr>
<td>Firestone</td>
<td><a href="http://www.firestoneag.com">www.firestoneag.com</a></td>
</tr>
</tbody>
</table>
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